BEYAC RESUMES NON STUDENTS ENGINEERING DISCIPLINES

1. ABDELSALAM, ABDELMONIEM
2. ABERDEEN, BARRY
3. ASANTE, KWABENA
4. BAQQI-BARRETT, SULAIMIN
5. BENNETT, MARVIN C.
6. BRIDGERS, JAMES
7. DEVEREAUX, JOHNNY L.
8. GREENE, RHONDA L.
9. HALL, ERIC P.
10. HARRIS, DARRIEL
11. JOHNSON, JAMAL R.
12. JOHNSON, LAWNY
13. JONES, JOHNNY R.
14. KNIGHT, TRAVIS
15. LONGWOOD, BENJAMIN R.
16. PARTRIDGE, KAREN I.
17. PHILLIPS, KYLE
18. POWELL, ALVA C.
19. QUARRE, LINDSAY O.
20. SCALES, DARRELL
21. SINGH, JASPREET

Good communication Skills
Willing to work anywhere

ABDELMONIEM ABDELSALAM

Work Authorization: US Citizen
4923 Brompton Dr.Greensboro, NC-27407
Phone: (336) 292 2154
E-mail: aa992777@ncat.edu

OBJECTIVE:

To enter into a challenging full-time position in environmental engineering that will provide a sense of satisfaction by enhancing my practical experience and educational accomplishments.

EDUCATION:

North Carolina A&T State University, Greensboro, NC
M.S. Environmental Engineering, May 2002.
GPA: 3.4

University of Khartoum, Khartoum, Sudan
B.Sc. Civil Engineering, June 1998.

SIGNIFICANT COURSES:

- Ground Water Hydrology
- Surface Water Quality Modeling
- Open Channel Flow
- Waste Water Analysis
- Environmental Engineering Design
- Systems Approach to Waste Management

COMPUTER SKILLS:

- Fortran
- HTML
- Qual2E
- Basic
- Mod flow
- Lingo

EXPERIENCE:

Field Inspector
Engineering Consulting Services, Chantilly, VA
(May 2002-April 2003)
Performed geotechnical, concrete, and reinforcing steel observations, as well as, onsite tests on construction sites and documented the findings on daily basis for multiple projects. Had the direct responsibility to interact with clients and contractors and provide timely answers on geotechnical and construction testing materials issues.

Master Project:
A Critical Review on Solid Waste Optimization Techniques
(October 2001-May 2002)
Extensively reviewed solid waste optimization techniques and models related to different areas of solid waste management, such as, facility sitting, and collection and transportation of solid waste and hazardous waste. The project also discussed the mathematical modeling techniques used to manage solid waste.

Summer Intern
Greeley & Hansen (Environmental Firm), Richmond, VA
(May 2000-July 2000)
Worked with the Combined Sewer Overflow (CSO) project team in managing the new CSO project for the city of Richmond, VA. Participated in meetings with the client as well as subcontractors. Helped with various hydrological tasks starting from data manipulation, head losses calculations, and ending with site visits and monitoring.

Class project:
Modeling the Nitrogen species at the Haw River, N.C Watershed Using the Streeter Phelps Model
(Jan 2000-April 2000)
The project simulated the Nitrogen cycle through the Haw River with all its forms (Organic Nitrogen, Ammonium, Nitrate, and Nitrite).
The simulation considered the point source loading for a portion of the actual river miles. A Microsoft Excel spreadsheet was employed to obtain different Nitrogen concentrations along the river.

Class project Proposal:
Designing a Water Treatment Plant For The City of Princeville, NC
(Jan 2000-April 2000)
The project proposed a design of a water treatment plant for the flooded Princeville city (population 250,000). The design examined the chemical & physical properties of the city water and suggested the chemical dosages needed accordingly. The project also included the design of mixing tanks (and mixers), flocculation basins, sedimentation basins, and the plant filters.

Graduation B.Sc project:
The Alternative Building Materials in Sudan,
(Jan 1998-May 1998)
The graduation project explored the effect of new building materials (pozolan as a cement replacement) on reducing construction costs in Sudan. The project included lab experiments and tests (deflection, strength, etc.) for the samples with and without the new replacement material. The project concluded that economic benefits and acceptable strength can be obtained with the new material.

Summer Internship
DAN-FODIO Co. Construction Company, Khartoum, Sudan,
(May 1996-July 1996)
Helped supervise construction sites for the company and also helped in the assignment of daily tasks, purchasing orders preparation, and daily site reports.

ACTIVITIES: Member of the American Society for Civil Engineers (2001-2003).
Treasurer, Khartoum Students Society Khartoum, Sudan (1996-1997).

SCHOLARSHIPS: Graduate Assistantship in Areas of National Need (GAANN).
(Spring 2000 until Spring 2002)

HONORS: Member of the year at Khartoum University Engineering Society (1997).

REFRENCES: Available upon request.

Barry Aberdeen
2506 Avalon Pl.
Hyattsville, MD. 20783
301-422-1347 (Home)
E-mail: baberdeen@hotmail.com

OBJECTIVE:
To obtain an entry-level position where I can utilize my technical background and experience in the field of engineering.

EDUCATION:
Bachelor of Science
Major: Physics with an emphasis in Engineering
Delaware State University, 2002

SOFTWARE SKILLS:
Proficient with AutoCad, C/C++, Java, Excel, Fortran, Labview, MatLab, Origin, Visual Basic and Windows.

RELEVENT COURSEWORK:
Microelectronic Circuit Theory, Digital Design, Linear Circuit Theory, Programming for Engineering, Microprocessor Based Systems I, II, Engineering Graphics and Analysis.

PATENT AND PUBLICATIONS:
Journal publication- *Amplified spontaneous emission in optically excited Ti:Sapphire medium*," G. Guan and **B. Aberdeen**, and N. Melikechi, manuscript in preparation for publication (March 2004).

WORK EXPERIENCE:
Suitland High School. Suitland High School, 5200 Silver Hill Rd. Forestville, MD. 20747 (301- 817-0500), (August 2003-Present)
Supervisor: Dr. Gwendolyn Allen
Position Title: Math and Computer Science Teacher (Algebra2, Trig/Analysis, Intro to Computer Science)
Duties, Responsibilities, and Skills:

- Teaching students concepts in computer science and in math, implementing lesson plans, keeping a daily record of attendance and grades for students.

James Madison Middle School. James Madison Middle School, 7300 WoodYard Road, Upper Marlboro, MD. 20772 (301-599-2422), (November 2002-June 2003)
Supervisor: Mr. Bruce Tyler
Position Title: Math Teacher (Pre-Algebra)
Duties, Responsibilities, and Skills:

- Teaching students concepts in Math, implementing lesson plans, Keeping a daily record of attendance and grades for students.

Applied Optics Center, 1200 Dupont Highway, Dover. DE. 19901 (302-857-6806),
(August 2001 – July 2002)
Supervisor: Dr. Nourredine Melikechi
Position Title: Research Assistant/ Undergraduate Student Assistant.
Duties, Responsibilities, and Skills:

- Researched on Laser Amplification (sponsored by NASA)
- Researched on Laser Induced Breakdown Spectroscopy (sponsored by the Army)
- Researched on Transmission and Reflection of Teflon and Diffuser sheets.

TECHNICAL SKILLS:
Experience with the operation and use of various laser systems including:

- Ti: Sapphire,
- Argon
- Nd: Yag.

Extensive use of advanced laboratory equipment including:

- oscilloscopes, digital multimeters, voltage supplies and function generators.

AWARD RECEIVED:
Alliance for Minority Participation:
AMPY of THE MONTH –Outstanding Leadership

Kwabena Asante
12800 Harrisglenn Dr., Apt # 133
Austin TX, 78753
Tel: (512) 773- 3564
Email: etnasak@yahoo.com

Summary of Qualifications:

Electrical engineer with a MSEE and seven years experience in design, development, research and product management of power electronic products and power distribution systems.

Areas of Strength:

- Power Supply & Adapter Design & Development
- Root Cause Analysis
- Power Systems Design and Qualification
- Project Management
- International Experience
- Research and Product Development

Work Experience:

Development Engineer
Dell Computer Corporation, Austin, TX-78682 2001 - present

- Design dc- dc power converters for notebook computers, rewrite test plans and procedures for validating power converters that adequately addresses margin validation including effects due to temperature, voltage and process variation. Perform voltage tolerance analysis on dc- dc power converters for notebook computers.
- Develop, qualify and test new power supplies and power subsystems for the latest desktop, and workstation computers. Manage three to four power supply projects across various lines of businesses at the same time.
- Manage and provide technical leadership to two technicians and two engineers in developing adapters and power supplies for notebooks and desktops computers.
- Work with multiple overseas and US vendors to design, qualify and test adapters and power supplies for notebooks, desktops and workstations. Served as one of the primary engineers in developing the Dell power supply qualification procedure used in PSG. Worked with a vendor to redevelop a 460W workstation PSU at a cost reduction of $13.00 per unit.
- Take products through EMC, Safety, thermal, acoustic and reliability testing. Generate power supply specifications on new power supplies. Sustain all the power supplies that I have developed until EOL and beyond.
- Conduct power tests on all new Dell computer systems and peripherals and champion power sizing for new systems. Assist Sales and Customer Service departments in power measurements and power consumption related issues.
- Wrote detailed power supply procurement specification and benchmarked internal design against OEM vendors.

Teaching Assistant
School of Electrical & Computer Engineering,
Georgia Institute of Technology, Atlanta GA-30332 2000

- Performed a detailed power factor analysis of energy systems and suggested measures to improve power quality.
- Performed technical calculations and harmonic analysis using the Dranetz Power Quality Analyzer and the Square-D Power Logic Monitor.
- Assisted professor in designing, setting up and tutoring lab sessions in energy systems conversion class and graded students lab reports and homework.

Electrical Technician

Ciba Vision, Johns Creek Parkway, Duluth, GA 1997 - 2000

- Participated in all aspects of production processes, that included: setting up, adjusting, examining, operating and troubleshooting equipment and machinery used in the production of contact lenses.
- Trained employees on the use of equipment as well as well as safety hazards in accordance with FDA, ISO and OSHA regulations.
- Directed the installation and production setup for Siemens PLC OPS equipment for the manufacturing of contact lenses.
- Performed mold related investigations to improve mold yield.
- Served on a high performance team to improve quality of lenses and also increased productivity.

Entrepreneur

Ghana, West Africa 1991-1996

- Collaborated with four electrical engineers to set up a power consultancy firm.
- Provided guidance on design of power distribution systems, researched on methods of improving power quality and load predictions for municipalities and industries.
- Designed 10 KV power distribution systems including protection systems. Performed control and stability studies on a power grid.
- Developed a 10 KW high-availability power system with two 10KW generators, automatic switch gear and rectifier battery plant.

Education: MS in Electrical and Computer Engineering
Georgia Institute of Technology, Atlanta, Georgia.
GPA: 3.6/4.00. completed in 2000

Languages: Fluent in Russian (written and verbal)

Software Languages/ Packages: SPICE, AutoCAD, Allegro and Microsoft Office,
Autotester, MATLAB, Mathematica, Mathcad, NH Research ATE software.

Immigration Status: US Citizen

Professional Affiliations: Member IEEE and NSBE.

References: Available on request.

Already works for USDA

4905 Goodnow Rd. Apt. L Baltimore, MD 21206 Phone: (410) 488-4183 E-mail: baqqi5@hotmail.com

SULAIMIN BAQQI-BARRETT

QUALIFICATION SUMMARY

A goal-oriented, creative professional with solid engineering, design, simulation and quality assurance experience. Highly organized with the ability to manage multiple projects and meet deadlines. A strong work ethic combined with a commitment to excellence in all projects undertaken. A team player working effectively with multiple engineering disciplines, construction, maintenance and scheduling.

EDUCATION

Morgan State University, Baltimore, MD 08/96 – 05/01
B.S. in Electrical Engineering

AREAS OF STRENGTH

Microprocessors - Programming Mircochip PIC 16F877, Hewlett Packard Network Analyzer - Retrieve S-Curve data from transistors, Totex - Optimization of I-V Curves, Max Plus II, Advanced Design Systems (ADS), P-Spice, SAS, C programming, C++ programming, Maple, Matlab, Microsoft Office

RELEVANT COURSE WORK

Electronic Circuits, Signals and Systems, Discrete Signals and Systems, Digital Logic, Materials and Devices, Neural Networks, Fuzzy Logic, Linear Control Systems

EXPERIENCE

USDA Rural Utilities Service (RUS), Washington, DC 07/02 - Present
Electrical Engineer/Network Administrator

- Engineering Project Manager responsible for the planning, construction, operation, and maintenance of electrical distribution, transmission and generating systems for 110 rural electric cooperatives that are constructed using Rural Utility Service (RUS) loan funds.
- Provide technical guidance and consultation to borrowers, consulting engineers, manufacturers, contractors, and others interested in Rural Utilities Service distribution, transmission and generation activities.
- Utilize Title 7 of the Code of Federal Regulations and the Rural Electrification Act (REAct) of 1936 to ensure that submitted engineering documents are acceptable for loan processing.
- Review and approve construction contracts for substations, transmission lines, and other construction to ensure RUS funds are properly allocated.
- Ensure proposed facilities agree with borrower's Long Range Plan, Construction Work Plan, Load Forecast and other plans pertinent to application proposal and assure that borrowers have an acceptable Operation and Maintenance Program.
- Perform loan budget analysis for the allocation of loans ranging between $3,000,000 and $80,000,000 and assure that financial forecast is consistent adequate with borrower's engineering and load forecasting studies.

Head Start Quality Improvement Center, New York, NY. 02/02 – 06/02
Consultant

- Evaluated and reviewed program and training session information and results that were performed throughout the year for eligibility of Head Start funding from Congress.
- Analyzed and collated survey information received from subsidiary Head Start organizations for the states of New York and New Jersey.
- Designed and created a user-friendly database for request and feedback surveys submitted by New York and New Jersey Head Start affiliates and converted results into a legible format.
- Compiled evaluations of training sessions and seminars presented by Head Start Quality Improvement Center staff.

COMSARE, Baltimore, MD. 01/00 – 05/01
Research Associate

- Performed comparative simulation between large signal Angelov and Neural Network transistor amplifier models using ADS simulation software.
- Designed small signal Angelov Models using the Hewlett Packard Network Analyzer, ADS, and Totex from initial phase to end.
- Analyzed and evaluated the simulated results from small and large signal Angelov models to small and large signal Neural Network models.
- Created and presented reports of simulated results to program director and graduate students; Compiled simulation results of the models into a readable database format.
- Conducted troubleshooting analysis to examine possible causes of issues leading to unsuccessful model performance.

VOLUNTEER ACTIVITIES

Saturday Academy (Morgan State University), Baltimore, MD. 09/00 – 05/01
Assistant Teacher

- Tutored Baltimore City middle school students in English, Math and Computer skills.
- Prepared group assignments for students to enhance oral and writing skills.
- Improved individual student strengths through facilitating and organizing small-group interaction with more advanced students.
- Instructed students in implementing improved study habits in areas of mathematics and reading comprehension.

PROFESSIONAL MEMBERSHIPS

2000 – 2001 Center of Microwave Satellite and RF Engineering (COMSARE)
1997 – Present National Society of Black Engineers
Summer 1996 Participant in the Morgan State University AMP Math Bridge Program

REFERENCES FURINISHED UPON REQUEST

MARVIN C. BENNETT
638 High Street
Perth Amboy, NJ 08861

Phone: (732) 376-0347 **e-mail:** *mbennett@caribsounds.com*

OBJECTIVE: To obtain a position performing engineering design and analysis focusing on structural engineering that will provide the opportunity for new challenges, diverse experiences, and professional growth.

EDUCATION:

Lehigh University, Bethlehem, Pennsylvania
Master of Science Degree in Civil Engineering (Geotechnical/Structural), June 2001

Morgan State University, Baltimore, Maryland
Bachelor of Science Degree in Civil Engineering

WORK EXPERIENCE:

El Taller Colaborativo, P.C., Newark, New Jersey
Structural Engineer in Training *01/2003 - Present*
General Responsibilities

- Analyzed existing and new structures to perform various components of structural design. Modeled Structures in StaadPro.
- Assisted Professional Engineers with the review and design of contract drawings, technical reports, and specifications for numerous projects.
- Worked with several engineering disciplines within the company to complete the design of many projects.

Key Projects:

Rehabilitation of BQE (Nassau-Concord And Park Avenue Viaduct)

- Responsible for Estimating of Electrical and M&PT quantities.

NJSCC Pre-K thru 8 PS28 and PS29

- Prepared the design of a new 108,000 sq. ft. elementary school, which included the design of beams, steel columns, moment connections, base plates, footings, roof joist, and the identification of floor and roof loadings.

NPS Student Media Center

- Performed structural design for the renovation of the interior of the facility and building systems. The design included the design of footings, pedestals, and base plates.

La Casa de Don Pedro Early Childhood Center

- Prepared structural design for the renovation of a 10,000 sq. ft. structure and the 5,000 sq. ft. addition of new space.
- Performed the structural design of retaining walls, roof truss, beams, canopy, columns, and structural connections.
- Analyzed and recommended that existing concrete cracks and damaged steel columns encased in concrete be repaired.
- Generated 3D model analysis existing structure and foundation design for parking lot lighting.

NJ Toll Plaza- Interchanges 7A, 9, 12, & 13A HVAC System Replacement Design

- Designed structural concrete slabs, connectors, and bolts for air conditioning system.
- Assisted with the design of reinforced concrete pipe for encasement of air conditioning ductwork.

NJSCC Region 6 Program Management Firm Contract

- Reviewed structural design of New Jersey Public Schools.
- Ensured structural compliance of contract documents to standard design practices and codes.

Langan Engineering and Environmental Services, Elmwood Park, NJ
Staff Engineer II *06/1999 – 12/2002*
General Responsibilities

- Designed shallow and deep foundations and conducted load tests for 50-foot piles.
- Assisted project manager in preparation of numerous specifications, recommendations, and geotechnical reports.
- Utilized inclinometers, vibration monitoring, peizometers, and settlement plates to assist analysis/design.
- Generated boring profiles and cross-sections to aid in foundation design.

Key Projects:

Christiana Retail Center, Christiana, DE

- Completed slope failure analysis for design of slope reinforcement and geo-piers design.
- Performed the structural design of a 40 feet retaining wall.

Watchung Square, Watchung, NJ

- Performed inspection of 475-rock/soil anchor installation during construction of a 1,900-foot long retaining wall.
- Assisted in design of 60-foot rock/soil anchors and retaining wall varying in height from 10 feet to 20 feet.
- Performed inspection of 30-foot horizontal drains to relieve any future build-up of hydrostatic pressures.

Department of Public Works, Baltimore, Maryland

Assistant Engineer *05/96 - 12/97*

- Assisted senior engineer in the preparation of cost estimates using city and state estimating guidelines.
- Designed the reconstruction of 200 feet of City Roadway that included design of vertical and horizontal curves, curbs and gutters, cross sections and profiles, drainage design, and piping and manhole selection.

RELATED EXPERIENCE:

Senior Project Design *01/97 - 01/98*

- Assisted Army Corps of Engineers in structural design of maintenance facility which was comprised of a roof, steel beams, columns, slab on grade, bearing and shear walls, bearing plates, and foundation designs.

CERTIFICATIONS: Engineer in Training (EIT)

PROFESSIONAL AFFILIATIONS: American Society of Civil Engineers, American Concrete Institute

SKILLS: StaadPro, Rams Beam, Autocad 2000, Mathcad, Slide, Geo-Slope, Maple, Microsoft Office XP, Sigma Plot.

REFERENCES WILL BE FURNISHED UPON REQUEST

James Bridgers

2557 Barnesley Place
Baltimore, MD 21244

U.S. Citizen
Security Clearance: Current Secret

jab4701@yahoo.com
(814) 360-6111

OBJECTIVE To obtain a position using and developing electrical engineering and leadership skills.

EDUCATION

B.S. in Electrical Engineering — Graduated December 2002
The Pennsylvania State University — State College, PA — GPA 3.27 / 4.0

- **Worked 20 hours / week** while attending school full time taking **18 credits / semester**

LEADERSHIP EXPERIENCE:

Success 101, State College, PA
Teaching Assistant, August 2000 – December 2002

- Developed the class syllabus, led class discussions, and presented material to the class.

National Society of Black Engineers
Telecommunications Chair, May 2001 – May 2002

- Designed the web site and conducted an online resume workshop.

The Engineering Experience for Minorities (TEEM), Rutgers University

- Theoretically designed an award winning magnetic levitation vehicle.

Mentor – NASA and GPU Energy

- Discussed math, science and technology with high school students as well as participated on a panel where teachers learned what influences contribute to a successful engineer.

EXPERIENCE

Northrop Grumman Corporation, Baltimore, MD
Systems Engineer, January 2003 - Present

- Generated test targets to validate functionality for radar mode.
- Partitioned AMRFC-v2 array based on antenna functions requirements.
- Performed system analysis and created system models on radar systems.
- Increased functionality of a test target generator by adding an MTD radar mode to test software.

The Boeing Company, Seal Beach, CA
Engineering Intern, May – August 2002

- Conducted analytical assessments of test imagery to develop algorithms and processes to validate requirement specifications.
- Designed and performed digital image quality tests using MATLAB and CIQM. Tests evaluated the quality of the image processing algorithms that The Boeing Company would be purchasing.

M^3 Hybrid Electric Vehicle Program, State College, PA
National Science Foundation Undergraduate Fellow, August 2000 – December 2002

- Developed a hands-on kit that meet Pennsylvania's Science Academic Standards so teachers could use them in their classrooms.

GE Transportation Systems, Erie, PA
Engineering Intern, May – August 2000

- Initiated web based database for the Locomotive Test Department of their test locomotives. Built prototypes of locomotive systems and rewired a Union Pacific locomotive.

NASA – Johnson Space Center, Houston, TX
Engineering Coop, January – May 2000

- Created circuit boards from schematic phase to installation for Six-DOF simulator using engineering circuit design software, Orcad and Qcam in the Automotive, Robotic and Simulation Division.

AWARDS

Paul Robeson Youth Achievement Award
Bunton – Waller Fellowship
Kimberly Clark Scholarship
Delta Sigma Theta Scholarship
Douglas Hall Temple Scholarship
GE Fund Scholar
Merck Scholarship
Boeing Scholarship
University of Women Scholarship
National Society of Collegiate Scholars

Impressive individual
Willing to work anywhere

JOHNNY L. DEVEREAUX
700 Louis Henna Blvd #327
Round Rock, TX 78664
HM# (512) 244-9154
Email: johnnydevereaux@yahoo.com

WORK EXPERIENCE:

SUN POWER, Round Rock, TX
Technical manufacturing operator, January 2004-Present

- Operates high volume clean and etch process equipment to manufacture solar cells.
- Conduct daily quality procedures on process tools to ensure the production of high quality solar cells.
- Assist in the satisfaction of priority-based production timelines.
- Assists maintenance personnel with non-scheduled and preventive maintenance.
- Inspect for product defects using metrology tools.

DUPONT PHOTOMASK, Round Rock, TX
Photomask Quality Inspection Engineer, February 2002 – March 2003

- Insured daily quality of photomasks through defect inspections.
- Dispositioned mask defect issues seen at Starlight, Die to Die, and Die to Database inspections.
- Sustained inspection run issues at Pattern and Starlight inspections.
- Investigated mask defects printability using the Aerial Image Measurement System (AIMS).
- Repaired chrome defects using the NEC Laser repair tool.
- Developed defect disposition guidelines for sustaining engineering staff.
- Conducted pre-audit inspections.
- Operating knowledge of running Starlight, and Pattern inspections using the KLA-Tencor Terastar and Hurricane tools.
- Developed SPC control charts for starlight inspection tools.
- Supported engineering development and investigation projects during the weekends.

MOTOROLA SEMICONDUCTOR PRODUCT SECTOR, Austin, TX
MOS 8 Thin-Films Process Engineer, October 1998 – February 2002

- Certified Six Sigma Green Belt
- Six Sigma trained in the areas of Continuous improvement, Design of Experiments (DOE), and Statistical methods.
- Implemented wafer reduction project that saves $120,000.00 yearly in test wafer cost.
- Directed Statistical Process Control (SPC) activities which resulted in 90% of all thin films tools passing monthly Cpk audits.
- Optimized Passivation process qualification procedures which reduced queue time by 5 minutes and saved gas usage.
- Conducted DOE to determine stress limits of Plasma Enhanced Nitride (PEN) film.
- Owned thin-film Passivation process.
- Sustained issues caused by Applied Materials Aluminum, TiNitride, Teos, and Passivation deposition tools.

- Implemented 5" to 6" Passivation process conversion on two Applied Materials 5000 CVD tools.
- Championed thin-film group FMEA activities.
- Led thin-films group QS9000 efforts.

MOTOROLA SEMICONDUCTOR PRODUCT SECTOR, Austin, TX
Manufacturing Engineering Rotation Program (MERP)

- Completed Motorola's Semiconductor Manufacturing Engineering Rotation Program. (MERP) Rotational development program designed to prepare Manufacturing professionals for management responsibilities. One of 25 chosen from pool of 500 applicants.

Rotation 3, BAT-1 Test Engineer May 1998 – September 1998,

- Tested BAT-1 test devices to determine the contact resistance.

Rotation 2, MOS 12 Diffusion Engineer January 1998 – April 1998

- Set up Gate oxide monitoring on inline developed test devices.

Rotation 1, MOS 8 Etch Engineer September 1997 – December 1997

- Demonstrated that the addition of CF4 in metal etch processes would increase the queue time between etch and ash by 4 hours.

EDUCATION:

PRAIRIE VIEW A&M UNIVERSITY, Prairie View, TX
M.S. in Electrical Engineering (Microelectronics), August 1998
Masters Project: Development of NMOS Metal Gate Fabrication Process flow.
GPA: 3.3

PRAIRIE VIEW A&M UNIVERSITY, Prairie View, TX
B.S. in Electrical Engineering, May 1995
GPA 3.0

SKILLS:

Functional knowledge of Applied Materials CVD-PVD tools. JMP Statistical Analysis Software. Tencor UV-1250, Promis factor control system. Working knowledge of UNIX and DOS operating systems. MS Office applications, Hypertext Markup Language (**HTML**) and Custom Computer Building.

AWARDS:

- Awarded Certificate of Completion for Motorola's Manufacturing Engineering Rotation Program.
- Awarded Graduate Student Fellowship with NASA CARR at Prairie View A&M University.
- Awarded Certificate of Excellence for helping build Prairie View A&M University's first full functional solar car.

Baltimore

Looking for more stability
mobile
confident
Not interested in
entry level

Rhonda L. Greene

3444 Carriage Hill Circle Apt. 203 Randallstown, MD. 21133
Phone 410.521.3662
Email: rlgreene6@aol.com

OBJECTIVE To obtain a career as an Electrical Engineer in the areas of hardware design, systems engineering, field simulation or software design.

PROFESSIONAL EXPERIENCE

Cable Lead Engineer **1/99-Present**
Century Technologies: Silver Spring, MD.
Engineering and telecommunications support services for Lucent Technologies business unit, with a background in voice and data communications systems to include the switch and wireless systems environment. Conducted training classes throughout the United States. Develop and implemented detailed transport engineering specifications and equipment configurations according to Verizon telecommunications standards and practices. Successfully managed the Quality Team to achieve ISO9000 Certification.

Cable Lead Engineer **8/02-1/03**
MasTech Communications: Hunt Valley, MD.
Engineering and telecommunications support services for Lucent Technologies business unit, with a background in voice and data communications systems to include the switch systems environment. Develop and implemented detailed transport engineering specifications and equipment configurations according to Verizon telecommunications standards and practices.

Research Engineer **9/96-Present**
Morgan State School of Engineering: Baltimore, MD.
Assist freshman with course selection, professors with course preparation and instruction, and faculty with administrative duties. Assisted with the successful increase of graduating engineering students by forty percent.

Assistant Electrical Engineer **5/91-8/95**
Tracor Applied Sciences: California, MD.
Wrote programs to test design specifications of commercial naval equipment for United States government naval ships. After tests completed, technical manuals were written to detail test results.

Assistant Electrical Engineer **8/89-8/90**
SY90 Patuxent Naval Air Force Base: Lexington Park, MD.
Perform field simulations on naval helicopters to test commercial design specifications. Necessary alterations performed so equipment could perform during military operations.

TEAMWORK My experience as a cable task lead engineer, including in-depth experience in the test repair, modification, integration and installation of Navy communication and combat systems has presented many opportunities to be a team player. Demonstrated ability to meet tight deadlines. Awards received from top management.

EDUCATION **Morgan State University: Baltimore, MD.**
Bachelor of Science: Electrical & Computer Engineering
December 1999

TECHNICAL SKILLS

* AutoCAD
* AllView
*Basic/Assembly
* Cases
* Electronics WorkBench
* Java/HTML
* MatLab
* Microsoft Office 2000
* Quality Assurance
* Radar Antenna Testing
* Turbo C/C++
*Technical Writing
* SCAN/Myriad Drawing
* UNIX Infobank/Virgos
* Visual Basic
* WaveTest/WaveTek
* Wireless Data
* Windows NT
* Word Perfect
* Graphical Design

RELEVANT COURSES

* Calculus I, II & III
* C Programming
* Digital Signal Processing
* Discrete Signals Processing
* Digital Logic
* Electronics
* Electronic Circuits
* Electro-Magnectics I & II
* Instrumentation & Sensors
* Materials & Devices
* Microprocessors
* Signals & Systems

ACTIVITIES

Society of Women Engineers (SWE)	98-99
National Society of Black Engineers (NSBE)	96-97
Sigma Gamma Rho Sorority Inc. (ΣΓP)	
Engineer of the Year	2000

REFERENCES Furnished upon request.

ERIC P. HALL
8203 Pine Crossing Court
Fort Washington, MD 20744
(301) 807-4509
email: ephallsr@hotmail.com

Dear Sir or Madam;

I am an Engineering Professional, currently employed as a civil cadd design engineer. I am submitting my resume to be considered for a position with your firm. My objective is to obtain a position of advancement with a dynamic, high growth firm, that may challenge and motivate me to enhance and advance my career, and I am open and willing to relocate.

To summarize my experience, I have several years of experience in civil engineering. I am efficient in design work as well as working with planner to develop design layout plans. I have knowledge survey boundary location, and topography. As an engineering professional, I understand the many variations of engineering and construction.

My records will indicate that I am and understand what if means to be a team player. having been a business owner myself I know what it means to have someone dependable and reliable on your side. I look forward to discussing a future partnership with you in more detail. I hope you feel that my qualifications will be valuable to your organization, please contact me at your earliest convenience.

Sincerely,

Eric P. Hall

ERIC P. HALL
8203 Pine Crossing Court
Fort Washington, MD 20744
(301) 807-4509
email: ephallsr@hotmail.com

EXPERIENCE

2000 – Present **Loiederman Soltesz Associates**
Senior CAD Design Technician
This position requires a working Knowledge of site design and layout. Grading, and drainage. I am knowledgeable in Storm drain layout, Water and sewer layout and design, utilities and cross sections and profiling.
I am proficient with the following design programs; Autocadd, Micorstation, and Terromodel.
I am State Certified in Sediment Control with the Maryland Department of the Environment Water Management Administration, Certification #26252 .
I also do Inspections for site certification per plan development, site inspection for as-built data collection for county approvals for permit and bond release. I review and address state and county agency comments for plan submittals for permit approvals.

1998 – 2000 **Walter L. Phillips Inc. Falls Church, VA.**
Survey Technician
Setup base sheet for site plans which includes all site feature and utilities. Landscaping, topography, determining easements from deeds. Title and deed research for property information. Responsibilities also include assisting survey crew with collecting data for prospective site development, performance of site visits to confirm information from survey crew. The position also requires updating of approved plans according to as-built information. With the combination of survey and site design experience, I also work with the company Planner preparing exhibits for clients for feasibility studies for prospective site development.

1998 – 2000 **Summerall Land Surveying** **Mitchellville, MD**
Rodman and Survey technician **(PART TIME)**
Responsibilities included setup of survey equipment, targets and data collector. Location of site monuments and property markers. Download data points for boundary layout. Worked on the Washington DC Metro line creating track alignment in metro tunnels and maintenance yard at night and weekends.

1997 - 1998 **Ben Dyer Associates Inc.** **Landover, MD**
Site Design Technician / Survey Technician
This position required a working knowledge of drafting theory, Computer Assisted Drafting and traditional drafting techniques. Duties encompassed preparation of working drafts in civil, architectural site plans, which includes utility layout, topography, determination of easement locations, and title and deed research. Responsibilities also included assisting survey crew with

collecting data for prospective site development, performance of site visits to confirm information from survey crew, and preparation of base sheets.

1995-1997 **McCrone Inc. Annapolis, MD**
Computer Assisted Drafting Technician
This position requires a working knowledge of drafting theory, Computer Assisted Drafting and traditional drafting techniques. Duties encompass preparation of working drafts in civil, architectural site plans, which includes utility layout, landscaping, topography, determination of easement locations, and title and deed research.

1993-1995 **Career Change**
During this time I was recovering from knee surgery. I had sold both businesses and decided attended school. I started at Catonsville Community for civil engineering and within two years I obtained a job in the industry I pursued.

1991-1993 **Campbell Sand & Gravel Crofton, MD**
Responsible for transport and delivery of sand, gravel and asphalt to various sites and locations.

1974-1991 **Hall Trucking Company Glen Burnie, MD**
Self-owned and operated business. Transported highway and road repair supplies to various locations in and out of the State.

1982-1991 **Dixie Pig Barbecue Odenton, MD**
Owner and operator of this Restaurant business, which specialized in food service.

SKILLS

Disciplines using AutoCAD Release 11 (DOS), 12, 13 and 14, COGO; DCA; Softdesk 6,7, and 8. Microstation Version (7) SE , J AND V- 8. Familiarity with industry and convention standards. Reading and interpreting blue prints, site plans and schematics. Familiarity with Microsoft Word 6.0 and excel
I also retain my CDL license to operate any piece of driving equipment, and I can operate off site heavy equipment.

EDUCATION

Catonsville Community College Baltimore, MD
Survey 101 Site Development, Survey Computation 111, Drafting/Advance Design Auto Program Planning and Land Development

Baltimore Community College Baltimore, MD
Design /AutoCAD Program Computer Aided Drafting and Design

Airco Technical Institute, Baltimore MD
Drafting / Sheet Metal Fabrication Program

Glen Burnie High School
General Academics / Business

Darriel Harris
928 Merriweather Way
Severn, MD 21144
(410) 768 2120
darriel_harris@yahoo.com

Interested in East Coast Assignment in Project Mgmnt
Baltimore District

Objective Obtain a leadership position within a growing organization

Clearance TS/SCI on basis of ISSA with full lifestyle polygraph (June 2003)

Education

Morgan State University — Baltimore, MD
Degree: Bachelors of Science, Electrical Engineering; 3.1 GPA
Graduation Date: December 2003

George Washington University — Washington, DC
Program: Master of Arts, Organizational Management; 3.6 GPA
Expected Graduation Date: June 2004

Skills

Management	Organization Assessment and Development, Process Development, Project Management
Operating Systems:	Solaris 2.6, 8, 9; Windows NT, 2000, XP
Programming:	Unix Shell Script, C, HTML, FrontPage
Math Applications:	Maple V, Matlab, Mathematica,
Word Processing:	Microsoft Office Suite 2000; Corel WordPerfect Suite 8; Microsoft Project
Design and Simulation:	HP –ADS, Xilinx Foundation, Electronic Workbench, GEECAD
Measurement	Vector Network Analyzer, ICCAP

Work Experience

Systems Engineer
Lockheed Martin — **Vienna, VA** — **1/2003 - present**
- Configure security applications to function on established and developmental systems
- Support security systems on all stages of life-cycle
- Manage and train security system administrators

Internship Experience

Small Business Development Center — **Columbia, MD** — **9/2002 – 11/2002**
- Perform market analysis for start up technology companies
- Research business development solutions for start up technology companies

Army Corporations of Engineers — **Camp Zama, Japan** — **5/2002 – 8/2002**
- Modified design plans for installation of an Uninterruptible Power Supply (UPS)
- Programmed a database for report submittals

Verizon (Bell Atlantic) — **Baltimore, MD** — **5/2000 – 8/2000**
- Updated manual to be used by engineers throughout CNE department; increased efficiency by 75%
- Revised requisitions from field engineers

Northrop Grumman — **Linthicum, MD** — **7/1999 – 8/1999**
- Designed and implemented purchasing database; increasing efficiency by 50%

Research Experience

Morgan State University — Baltimore, MD
Center of Microwave\Satellite and RF Engineering (COMSARE) – 1/2001 – 12/2002
- Measure, model, design, and analyze microwave devices
- Design, fabricate, and test microwave printed circuit boards

Electronics Lab Assistant - 9/2001 - 12/2001
- Monitor and test equipment for efficiency
- Repair Lab equipment

Advanced Realization and Characterization for Architects of DSP Engineering (ARCADE) \ Research Assistant –9/00 –8/01
- Design, simulate, and synthesize digital logic designs
- Extensive research on PLDs and FPGAs fundamental architecture

Leadership Experience

President of Engineering Student Organizational Council –MSU Chapter, **2001 - 2002**
President of National Society of Black Engineers – MSU Chapter, 2001 - 2002
Coordinator of Saturday Academy - Middle School outreach program, 2001 – 2002
Project Manager of millimeter wave simulation design project - Spring 2002
Vice President of Engineering Student Organizational Council – MSU Chapter, 2000 – 2001
Vice President of National Society of Black Engineers – MSU Chapter, 2000 – 2001

Honor Beta Kappa Chi National Scientific Honor Society, 2003

Mobile
Very interested in Comm

1019 Syracuse Street
Darlington, SC 29532

843.229.6912
843.393.0121
email:
JamalJohnson23@hotmail.com

Jamal Russell Johnson

Objective

Seeking a challenging Engineering or Technician position to utilize my communications, leadership, and troubleshooting/problem solving skills.

Education

Bachelor of Science Degree in Electrical Engineering, 2003

South Carolina State University, Orangeburg, SC 29117

Cum Laude Graduate, Presidential Scholar Recipient

- Related Courses: Robotics; Auto Cad; Intro to Power Systems; Digital-Analog Systems Analysis & Design; LabView; MATLAB; Electronic Communications; Intro to PLC & Virtual Instruments; Electrical Machines; Automatic Control Systems; Plane Surveying; Proficient with Microsoft Suite Software; Windows 98 & 00; Windows XP; C++ Programming

Experience

11/02-Present — Eagle Aviation (United Parcel Service) — Columbia, SC

Ground Hander

- Transfer cargo to and from aircraft distribution center
- Serve as member of the annual safely committee team

5/03-Present — South Carolina Department of Transportation — Columbia, SC

Electronics Technician (Internship)

- Installs, maintains, and performs maintenance on traffic signal systems and electrical equipment throughout six counties in South Carolina
- Install new traffic signal control systems and program the loop sequences into the controllers that operate the traffic systems

8/01 – 12/01 — BellSouth — Columbia, SC
2002 (Summer)

Service Advocate Center Manager (Co-op & Internship)

- Provided technical support to network centers and digital technicians in coordinating the provision of service to T-1's, ADSL's, ISDN's, slow-speed circuits, and POTS lines; Also interexchanged carriers, resellers, OLEC's and major accounts as well
- Interfaced with customers and other departments for the installation of the services
- Coordinated and implemented specific solutions in response to internal and external customer needs dealing with UNI's Service Inquires, CDP's, CDDD's, and CDD's
- Provisioned pairs for aerial and buried cables (Bridge Taps, Defective Pairs in Modems) by using electronic gain pair design and deployment and very knowledgeable of splicing methods performed on copper and fiber optic cables

2001 (Summer) — Savannah River Site (Department of Energy) — Aiken, SC

Fire Protection Startup Test Engineer (Internship)

- Performed annual tests on fire panels and smoke detectors.
- Received training on HVAC procedures

Awards and Organizations

- National Dean's List-1999, Life Scholar, Nucor Scholar, Presidential Scholar Silver Outstanding Medallion-1999, Presidential Scholar Bronze Medallion-2000, 2002, 2003
- Treasurer/Member of the National Society of Black Engineers, IEEE, and NAACP
- Volunteered at SCSU's Career Days

LAWNY JOHNSON

10505 Taryn Court,
Mitchellville, MD 20721

Home: (301) 490-8472 / Cell: 301-775-9996
Lawny.Johnson@verizon.net

EDUCATION / CERTIFICATION

University of Maryland University College, December 2003 GPA: 3.2
- MS, Telecommunications

University of Maryland at College Park, May 2000
- BS, Electrical Engineering
- National Collegiate Engineering Award, 1997

CCNA – Cisco Certified Network Associate, 2003

SKILLS

Networks: LAN, WAN, ATM, ISDN, TLS, Ethernet, Frame Relay
Management Tools: HP Openview, VitalNet, NetOptimize Capacity Manager, NTDCA
Operating Systems: Unix, Windows, Cisco IOS
Software Applications: InfoBank, Digital Ordering and Planning System (DOPS), Assign5 Lib, Trunk Inventory Record-keeping System (TIRKS), MS Project, Visio, Excel, Word, PowerPoint, Access, Lotus Notes
Equipment: Cisco Routers & switches, Lucent 5ESS/ SM2K, SONET
Protocols: TCP, IP, FTP, TFTP, SNMP, RIP, STP, UDP, VTP, CDP, ICMP, EIGRP, IGRP, ARP, RARP
Other: OSI, TCP/IP, DoD Model, ACL, VLAN, RMON, Telnet, DNS, OSPF, SQL, HTML, Project Management

PROFESSIONAL EXPERIENCE

Verizon Communications, MD **Summer 1996 – December 2003**

Verizon Advanced Data, Baltimore, MD **2002-2003**
Fast Packet Advanced Services– Data Traffic Engineering
Monitor the Fast Packet Backbone Networks inclusive of Asynchronous Transfer Mode (ATM), Transparent LAN Systems (TLS), Frame Relay, and Multi-Protocol Label Switching (MPLS) switches. Create and maintain network topology maps and issue recommendations to remedy traffic congestion and restore robustness. Worked with SNMP based management tools like HP Openview, NetOptimize, and VitalNet to assist with the overall end-to-end technical assurance of network engineering and design for client's internal / external data communications requirements.

- Developed monitoring guidelines and established reporting parameters for Transparent LAN System and IP/VPN network
- Selected by senior management out of a 100 plus management level staff to represent the department at Cisco's Symposium
- Built Cisco 6509 switches into Lucent's Vital Suite Management tool
- Conducted technical training for supervisory and management level staff members
- Increased group efficiency as measured by time and quantity parameters by 35%
- Actively participated in Request for Proposal (RFP) to add a new Multi-Service Switch capable of handling ATM, TLS, DSL, and Frame Relay to improve data traffic flow in Verizon's recent entrance in the Long Distance market
- Supported Senior Staff Consultants as needed and provided technical consultation to peers on the Gigabit Ethernet/TLS and IP/VPN platforms

Verizon Communications, Baltimore, MD **2000 - 2002**
Network Engineering – Switch Planning and Capacity Management
Created network engineering plans as well as designed, monitored, and provisioned technology elements in the local telephone network. Applied new technology systems to develop innovative system solutions to match network and market requirements. Made appropriate application decisions based on system attributes and company network needs to ensure network survivability and customer demands are met. Monitored network elements, network capacity, and network systems within a geographical area.

- Coordinated meetings with vendors which increased production by 46% and resulted in 100% job completion within 6 months
- Converted central office switches from TCBH to OAM/EVE to increase the efficiency of traffic engineering
- Saved over $4 million by identifying alternative ways of engineering jobs created by vendors, which was a direct impact on the company's bottom line
- Increased the utilization levels of the four main peripherals, T1's, PRI trunks, Analog Lines, and Digital Lines, by 15% through the removal and re-use of surplus equipment
- Headed the upgrade of the Washington Interagency Telecommunications System (WITS) switches to meet the FCC requirements
- Independently responsible for maintaining the reliability of the network and introducing new technology or ideas that would improve Verizon's service to the customer

Verizon Communications, Silver Spring, MD 1999 – 2000

Intern – Integration Testing Team

Developed test plans for Address Online Application and reviewed plans with Client, Requirements and Development Teams. Executed Address Online production verification. Documented test plans and results in Change Control Business Plan and verified database tables' updates using Server Query Language (SQL).

Verizon Communications, Calvert, MD Summer 1998

Intern – Potomac Billing, Service Order Administrative and Control System (SOACS)

Coordinated with SOACS group to document process flow of Maryland, Virginia, and West Virginia (MDVW) Potomac Billing Systems. Assisted in the transition of the Table Maintenance process to Quality Billing Center (QBC).

Verizon Communications, Silver Spring, MD Summer 1997

Intern – BroadBand Systems (Integration Systems Engineering Team)

Compiled a list of Broadband data attributes. Verified data compliance of Interface Control Documents. Worked with Systems development Teams to verify input data.

Verizon Communications, Wheaton, MD Summer 1996

Intern – Access Database Developer

ADDITIONAL TRAINING

Advanced Data Communications Systems, Networking Systems, CCNP, Network Management with SNMP, ATM Essentials, MPLS VPN Technology, Traffic Engineering Technology, Switch Capacities

Mobile but Northeast oriented
competent
Intested in design
quality candidate

Johnny R. Jones
492 N, Wickham Rd. #258
Melbourne, FL 32935
(321) 242 - 9837
johnnyrusse@yahoo.com

OBJECTIVE

Obtain an electrical engineering position as a test or design engineer.

EDUCATION

Bachelor of Science, **Electrical Engineering** **Graduated:** 2001 / 3.12 with honor
Florida Institute of Technology, Melbourne, FL (3.3 major)
Undergraduate Courses: Communication Systems, Electromagnetic Waves, Integrated Circuit Design/Layout, Microelectronics Fabrication Laboratory, Microwave Lab, Electro-optic Systems & Devices, and Signals & Systems.

SKILLS

Experienced with various Electronic Lab Equipment: Anritsu MT8802A Radio Communication Analyzer, Agilent 8960 Wireless Communication Test Set, HP 8920 RF Communications Analyzer, HP 8714ES RF Network Analyzer, Agilent E4421B Signal Generator, HP 4403B Spectrum Analyzer, Oscilloscope, Multi-meter, and Power Meter.
Other: Soldering, Leviton certified, Cable installation (copper cable and fiber-optic) for computer and telephone networks
Simulation Software: Spice3, **Magic**, Pspice, Matlab, Minitab
Operating Systems/Programs: **UNIX**, Windows, Microsoft Excel, and Microsoft Word
Software Languages: Assembly Language for Intel's 8051 and Motorola's 68000 microprocessors.

RELATED EXPERIENCE

Sept. 2003 – Present

Nokia Mobile Phones, Melbourne, FL
Production Test Engineer, Engineering Department
Working as a test engineer to support a mobile phone repair\production facility.

- Calibrated and correlated auto-tune and final test systems for the entire facility
- Project leader for activities to improve production output following CPI7 and Six Sigma processes
- Modify after market products to accommodate the needs of operations in a production environment
- Measure losses of antenna couplers and galvanic connections in a near field/shielded environment
- Build various cables and harnesses associated with automated fixture
- Measure characteristics of RF signals for open and closed loop power levels Frame Error Rate, Bit Error, and adjacent channel power
- Troubleshoot test equipment and work with vendors to resolve equipment problems

Fall 2000 – Sept. 2003

Nokia Mobile Phones, Melbourne, FL
Co-op – Assistant RF Test Engineer, Engineering Department
Worked as an assistant RF test engineer.

- Assisted in implementation of automated test fixtures that tests TDMA, CDMA, and GSM phones
- Measuring characteristics of RF signals for open and closed loop power levels, Frame Error Rate, Bit Error, and adjacent channel power
- Measuring losses of antenna couplers and galvanic connections in a near field/shielded environment
- Measuring the time response of communication lines that pass through RF low pass filters
- Troubleshooting and maintaining the automated fixtures used in production
- Building various cables and harnesses associated with the automated fixture

- Calibrated new fixtures to test systems
- Performed experiments and analyzed data using statistics
- Built integrated ATES and assisted in deployment

Summer 2000 **Amertron**, Melbourne, FL

Co-op – Assistant Test Engineer, Test Engineering Department

Worked as a test engineer for various military and commercial projects.

- Circuit testing, environmental testing, and troubleshooting of servo amplifiers and missile control panels to MILSPEC
- Tested and fixed temperature sensors for commercial refrigeration units

1996 - 2000 **Tri-State Communications**, Davidsonville, MD

Technician Helper- Summers, Communications Department

Worked as a technician's assistant in the installation of telecommunication networks.

- Pulled, terminated, and tested twisted copper wire or fiber-optic cable for telephone/computer networks

Honors, Accomplishments, and Memberships

- Member of N.S.B.E.- National Society of Black Engineers
- Graduated Florida Institute of Technology with honors
- Wrote an independent project report for Nokia Mobile Phones on the effect of RF low pass filters on communication lines

Travis Knight

Permanent Address: 890 George Street ♦ Orangeburg, SC 29115 ♦ (803) 534-0064
Travis.knight@us.army.mil

OBJECTIVE: To secure a position with an established company that will provide an immediate challenge and the opportunity for advancement.

EDUCATION: South Carolina State University, Orangeburg, South Carolina
Bachelor of Science in Electrical Engineering Technology, December 2002
GPA: 3.16/4.00 (Cum Laude)

Academic Experience: Electronics Workbench, AutoCAD, C++, MATLAB, Lab View, and P Spice
Microsoft Office Suite

EXPERIENCE:

CHEMICAL SPECIALIST (*December 1998-Present*)
US Army Reserves Orangeburg, South Carolina

- Use chemical, biological, and nuclear detection methods on foliage, utility vehicles and humans to determine contamination level and clean-up methods
- Utilize communication skills to obtain tactical data to determine optimal responses for chemical spills
- Assist with the development of plans to enable enlisted personnel to complete assigned tasks
  *Military deployment from 02/24/2003 to 06/07/2003

COMPUTER LAB ASSISTANT (*August-December 2002*)
South Carolina State University Orangeburg, South Carolina

- Assisted Network Systems Administrator with computer hardware and software installation
- Developed training materials and procedures, and/or train users in the proper use of hardware and software (including Lab View, AutoCAD and MATLAB)
- Installed and performed minor repairs to computer hardware such as: hard drives, floppy disk drives, keyboads and monitors, software such as: upgrading systems from Windows 98 to Windows XP, and peripheral equipment such as: printers, scanners, and copiers following design or installation specifications
- Confered with staff, users, and management to establish requirements for new systems or modifications

RESEARCH ASSISTANT (*Summers of 2001 and 2002*)
Savannah River Site Aiken, South Carolina

- Analyzed water samples to determine levels of waste contamination
- Documented and presented water analyses results for project management
- Demonstrated decreased levels of biodegradation due to applied remediation methods
- Determined whether areas needed remediation using test kits such as Ferrous Iron, Ammonium, CO_2 meters and Hydro lab probes

HONORS: Dean's list 1998, Bronze Medallion Recipient, 1998 and 1999

Lots of experience
Articulate, impressive
Skills may not line up
w/ Corps mission
Interested in Maryland
area

Benjamin R. Longwood Jr.
8514 Ritchboro Rd., District Heights, MD 20747
C (301) 801-4348 H (301) 567-6932
Longwood@Hotmail.com

SKILL CATEGORY: Digital Design using state of the art Electronic Design Automation (EDA) Tools. Excellent interpersonal and communication skills developed on the factory floor, the Board Layout House and various Safety and Emissions Test sites. A valuable team player for Hardware Design and implementation of prototyped devices.

- Implemented the application of the Echelon Power Line Communication system.
- Evaluated and designed GSM/GPRS Cellular Module and associated circuitry into CBET HUB.
- Appraised and approved a 2x16 Character Programmable LCD Display and it's controller.
- Coordinated with MET Laboratories for FCC, CE and Canadian approval of CBET Household equipment.
- Selected the Digital Signal Processor (DSP 2173) ease of emulation and its high level of integration as well as low power dissipation.

TS/SCI Clearance held in previously position

EXPERIENCE: 11/21/94 - Present, Senior Electronics Engineer, Arbiton Co, Columbia, MD:
Responsible for the design of the Critical Band Encoding Technology (CBET) HUB device. Implemented the application of the Echelon Power Line Communication system, which is a means of communicating over the household power lines. Selected Flash, SRAM and Serial Flash for various aspects of memory storage for the device. Evaluated several RF Transceiver pairs before choosing a 433MHz chip set from Linx Technology. Also reviewed Bluetooth, 802.11 and RFID technologies for part selection and a possible solution for our RF communication need. Designed a Neuron IC as a microprocessor for I/O control and power line communication. Upgraded the device by replacing the hardwired Si2400 Modem chip with a Wavecom GSM/GPRS Cellular module and associated circuitry. Reviewed state-of-the-art technology for various solutions as applied to current Cell Phone Technologies world wide. Judged various Cellular Technologies and determined the best solution for the projects requirements. Assisted in the mechanical layout in terms of chassis design and human interfaces for the CBET HUB.

Facilitated the redesign of a second module for this project which is the Base Station. Appraised and approved a 2x16 Character Programmable LCD Display and it's controller. This device is used for transmitting data via IR from the Personal People Meter (PPM) to the Base Station. The Base Station also recharges the PPM Li-Ion Battery and serves as a data storage device. Incorporated Echelon Power Line communication and the Neuron IC as a microprocessor for I/O control. Assisted in the mechanical layout in terms of chassis design and human interfaces for the Base Station.

Reviewed and evaluated PCB layouts before products can be prototyped. Proficient with ORCAD Schematic Capture Tools. Familiar with various PCB Layout tools for the purpose of board review.

Coordinated with MET Laboratories for FCC, CE and Canadian approval of CBET Household equipment. Approved and or modified testing methods used by MET for proper evaluation in order to receive acceptable test results. Served as liaison for Arbitron to MET. Provided explanation of board layout, circuitry design and mechanical interfaces in order to achieve acceptable levels of performance.

Lead Digital Engineer for the CBET Personal Portable Meter (PPM). Converted current design for miniaturization by incorporating a QuickLogic FPGA (0.65uM @ 5000 gate count) resulting in the replacement of glue logic and a much smaller PCB Board. Selected the Digital Signal Processor (DSP 2173) ease of emulation and its high level of integration as well as low power dissipation. Replaced mercury switches with more environmental acceptable Micro-Machine Accelerometer. Selected Flash and SRAM for various aspects of memory storage for the CBET PPM. Assisted with the implementation of

analog circuitry via evaluation of various CODEC, NiMH and Li-Ion Batteries, as well as selection of Analog-to-Digital Converters and evaluation of infrared communication (IR). Assisted in the mechanical layout in terms of chassis design and human interfaces for the PPM.

5/23/88 - 11/10/94, Senior Application Engineer, Intergraph Corp, Reston,VA:
Performed Demonstrations and Benchmarks of Intergraph's Digital Design Entry and Circuit Simulation/Synthesis tools for the design of ASICs and FPGAs resulting in the selection of the Intergraph Tool Suite by various clients. Presented hardware and software products demonstrating how the tools best meet that clients needs. Design and simulation of a 224MHz mixed technology (TTL and ECL) Clock Circuit for communication and data processing.

9/15/86 to 4/17/88, Digital Design Engineer, VEGA Division/Compudyne, Inc., Vienna, VA:
Evaluated and incorporated the implementation of a 2 Micron technology, 1800 gate CMOS LOGIC ARRAY that functionally replaces a Pulse Position Encoder presently in the form of CCA boards. This task required dividing the design into its major proponents for evaluation and schematic entry using DAISY CAE Tools. Generated and verified system level documentation for the Encoder.

6/4/84 to 8/31/86, Electronic Engineer I, Wang Laboratories, Inc, Lowell,MA:
Designed a motion sensitive alarm system for the Wang LAPTOP Computer. Implemented test to evaluate a SCSI Controller Chip. Entered and tested a CPU board on the VALID CAD System. Entered and tested a 1.5 uM Technology 5000 Gate Array using the MENTOR CAD System.

LANGUAGES: QuickLogic, PALASM, VHDL, ADSP-21XX ICE Tools, ORCAD, CAMCAD

TECHNOLOGIES: GSM, Echelon Power Line Communication, Bluetooth, DSPs, FPGAs

EDUCATION: BSEE: HOWARD UNIV., School of Engineering, Washington DC
AAS: ALFRED STATE UNIV. of New York, Alfred, NY
Developmental Training on VALID, MENTOR, DAISY and INTERGRAPH CAD/CAE Tools.

ORGANIZATIONS: IEEE Member

KAREN I. PARTRIDGE
800 Windstream Way, Unit A
Edgewood, Maryland 21040
410-538-7135

WORK SUMMARY:

Eighteen years combined experience in the fields of Industrial, Systems, Civil, Mechanical, Electrical, Fire Protection and Architectural Engineering.

PROFESSIONAL EXPERIENCE:

05/93 - Present: Engineer, Science Applications International Corporation

Engineer assigned to the Program Assistance and Integration Support (PAIS) contract with the U.S. Army Chemical Materials Agency (Provisional), located in Edgewood, Maryland. Primary responsibility is to provide technical support, integration and evaluation of various chemical materiel program projects for the PAIS contract. This includes project management and technical integration; acquisition documentation; planning, programming and budgeting; scheduling; site (field office) support; lessons learned and configuration management; treaty compliance support; logistics and material management; and meeting and briefing support.

Assigned to provide technical and analytical support for the development and improvement of Non-Stockpile systems and their performance. Currently supporting Pine Bluff (PB) Binary Destruction Facility (BDF) project. Activities include establishing documentation requirements, developing task management plans, project management plans, and providing specifications, and other documentation to support purchase field office space (trailer) and equipment for the BDF and other PB projects.

Supported Special Studies projects by co-authoring white paper endorsing the expedited destruction of binary precursors at the Pine Bluff Arsenal and providing historical summary report to the NRC of destruction activities. Also provided support for homeland security briefing to demonstrate the capabilities of the Non-Stockpile program systems.

Provide technical and analytical support for Explosive Destruction System (EDS) reporting. Included in the reports are the Environmental and Regulatory Documentation Support for the EDS Task Management Plan; Aberdeen Proving Ground Treatability Study Protocol; Aberdeen Proving Ground Treatability Study Report; the Aberdeen Proving Ground Operational Test Report; the Porton Down Treatability Study Protocol; the Porton Down Draft Treatability Report; environmental and general support to the EDS.

Support for the Munitions Assessment and Processing System (MAPS). Principle Investigator for SAIC's technical support to the MAPS project. Developed task management plan and deliverable schedule. Initiated development of procedures for MAPS operations and maintenance activities. Other responsibilities included reviewing technical design drawings and safety documentation, and oversight of the fabrication of the MAPS SETH items. In this role, I also have responsibility for oversight of the technical efforts of several subcontractor personnel supporting the development of SOPs and MOPs.

Provide technical support for Munitions Assessment Review Board (MARB) database development and maintenance. Coordinated with other Army agencies, US Army Technical Escort Unit (TEU), Idaho National Energy and Environment Laboratory (INEEL)) to acquire MARB data for incorporation into the database. Populated X-ray, PINs and administrative data, and developed data review packages to support MARB meetings. Provided detailed QC review of all data submitted and entered into the MARB database. Provided technical and analytical support to MARB97 database developer for troubleshooting and upgrading the database functionality. Assisted the Software control configuration control board by providing database change proposals and problem reports. Provided technical support to MARB meetings to facilitate data review and government decision-making process. Provide technical review of MARB meeting conference notes.

Prepared the Configuration Management Plans for the Non-Stockpile Chemical Materiel Program, the Rapid Response System and the Munitions Management Device - Version 1 that provides the technical and administrative direction for surveillance over the life cycle of the projects.

Contributed to the preparation of the National Destruction Plan for Former Chemical Weapons Production Facilities which provides a summation of the requirements to be fulfilled in accordance with the *Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction* during destruction of the US's former chemical weapons production facilities.

Prepared and contributed to the preparation of the Interim Holding Facility and Transportation Plans, and associated Risk Analyses, for several non-stockpile sites. Participated in preparation of the Independent Government Cost Estimate for Chemical Warfare Materiel Treatment and Disposal Actions, and the Tooele RCRA Impacts from the Operational Verification Testing (OVT) Experience Report.

Designed specifications for a program issue database which allows reports to be generated based on major demilitarization equipment involved, subsystems affected, OVT phase and other pertinent parameters which has been utilized to identify safety and environmental compliance issues by equipment item and other parameters to support other PAIS Departments. Assisted in the preparation of the Environmental, Process, Safety and Comprehensive Reports providing a summation of the results of OVT conducted on prototype incinerators for chemical weapon demilitarization at Johnston Island.

09/89 - 05/93: Harford County Government

Began career at Harford County Government as an Engineering Associate I. The ability to resolve disputes, identify and correct highway safety hazards led to a promotion as an Engineering Associate II. Responsible for enforcing traffic control standards established by the Federal Highway Administration, State Highway Administration and Harford County Government. Entailed ensuring proper installation and location of traffic control devices; investigating complaints concerning traffic safety; collecting and analyzing data related to highway safety concerns (this data was used to implement or recommend traffic safety changes).

Responsible for effectively maintaining the County's street lighting program and budget which included investigating the feasibility of lighting installation requests, documenting results of findings, determining lighting specifications, requisitioning and maintaining accurate records of all costs associated with the program. These records consisted of items such as installation costs, energy costs, and maintenance costs (involved determining responsible party for damage and billing accordingly) for all streetlights within the County's jurisdiction. Attended pre-construction meetings to inform developers of the appropriate traffic control measures to be utilized during the construction and finalization phases of the project. Also responsible for signing acceptance of roadways into the County system, providing technical support to the County's Deputy Director, resolving citizen complaints and preparation of brochures related to pedestrian and traffic safety for distribution to the public.

10/85 - 9/89: E-B-L Engineers Incorporated

Employed as a Draftsperson. Responsible for preparing a variety of engineering drawings for architectural, electrical, mechanical, fire protection and civil engineering projects; also responsible for keeping an accurate record of their location and the timely reproduction of these drawings and their associated construction specifications. Other duties encompassed field assignments such as verifying the actual construction and modifying drawings to the as-built condition.

EDUCATION:

Bachelor of Industrial and Management Engineering, Widener University, 1993
Associate of Arts in Engineering, Essex Community College, 1989
Associate of Arts in General Studies, Essex Community College, 1987
Certification, Drafting Technology, Essex Community College Baltimore, 1983

SECURITY CLEARANCE:

No current security clearance

MISCELLANEOUS:

Mentor for Maryland's Tomorrow Program
Notary Public - Harford County Maryland, commission expires February 1, 2006

Kyle Phillips

9206 Ethan Ct.
Laurel, MD 20708
(301) 498-6091
kyle2113@hotmail.com

Education

University of Maryland College Park, MD Sept 1999 – May 2003

Bachelor of Science in **Chemical Engineering**

Howard Community College Columbia, MD Sept 1997- May 1999

Associate Degree in **Biotechnology**

Associate Degree in **Life Science**

Work Experience

Volunteer High School Tutor Beltsville, MD September 2003 – present

Assisted students at High Point H.S. with technical questions in the field of Chemistry, Biology and Physics. Clarified homework and test issues while building their confidence with the subject matter.

Continental Pools Inc. Savage, MD May 2001- September 2003

Seasonal work included lifeguard, swim instructor and area supervisor. Supervised over 30 employees covering 4 counties. Adhered to and maintained county health codes pertaining to chemical levels. Responsible for pool repairs, customer, lifeguard, management relations, contractual adherence and commissioned sales.

Zimmer Evaporation Columbia, MD May 2002 – Jan 2003

Employed as a full-time intern. Updated and logged standard CAD specifications on falling film evaporators, updated and improved costing techniques. Created and assembled manuals for customers. Assisted other engineers with purchase orders and vendor/engineering correspondence.

Personal

Awards and Positions held:

Secretary and President of the **American Institute of Chemical Engineers**,

University of Maryland student chapter	2001- 2003
Member of Phi Theta Kappa academic honor fraternity	1999
Alumni of the Rouse Scholars Program	1999

Skills:

Proficient typist, skilled in Microsoft Office, mathematics programs, Pro-E, Auto CAD and internet tools. Some experience with C, C++, Matlab, and Java programming.

Activities and Interests:

Played trumpet in concert orchestra, jazz and pep bands in high school as well as in college. Interests include team sports, lifting weights, playing music and motorcycles

References

Available upon request

Alva C Powell
3623 Austin St., S.E.
Washington, DC 20020 USA
Contact Phone: (202) 583-2540;
E-mail Address: powellalva@hotmail.com

EXPERIENCE: 05-1998 to 10-2001; Chemical Engineer; Patent and Trademark Office; Washington, D.C. 20231; Robert Bruce Breneman; 703-305-4108; Researched claims of an inventor's application for novelty and non-obviousness in order to determine the patentability of the claims. If claims are patentable, then a patent is granted for a term of years to an inventor. Examined applications in the semiconductor technology for etching methods and apparatus in the fabrication of microdevices.

01-1998 to 05-1998; Student Engineer; George Washington Univ. - Dept. of Transportation; Washington, D.C. 20590; Assisted safety compliance engineers with enforcing the validity of manufacturer's certification to the performance requirements of vehicle crashworthiness safety guidelines. Conducted technical investigation of possible noncomplying vehicles following an investigation plan. Assessed effectiveness of test procedures.

05-1995 to 11-1997; Process Wafer Engineer; Delphi Systems (Delco Electronics); Kokomo, IN 46905; Personnel; 765-451-0382; Skilled in the application of quality engineering (statistical process control, process capability studies, design studies and variance analysis). Plasma etch experience with oxide, nitride, TEOS, polysilicon, polyimide, and metal films utilizing Applied Materials' 8110 oxide etcher, and 8330 metal etchers, Tegal 901 and Tegal 903 single wafer etchers, and LAM Research 490 single wafer etcher. Reduced operational time and eliminated monitor wafer to improve efficiency of etchback process. Reversed negative scrap trend for uneven etch - yield increased 30% in one year. Team leader for the acquisition of dry etching equipment. Dealt with CMOS, Bipolar, FET and DRAM semiconductors

03-1990 to 05-1995; Chemical Engineer; Bureau of Engraving and Printing; 14th and C. St., S.W., Washington, D.C. 20228; Granted "Secret" security clearance. Assigned as a contracting officer's technical representative to monitor and administer the activities of a wastewater pretreatment plant. Coordinated design, development, acquisition, installation, and testing activities for plant-related projects. Operated and maintained small-scale research web intaglio press for development of experimental inks. Produced safety training film for three-roll ink mill. Appointed as safety coordinator for office. Conducted survey for the recycling efforts within agency.

01-1989 to 03-1990; Chemical Engineer; Dept. of Energy - Savannah River Operations; P.O. Box A, Aiken, S.C. 29802; W.A. Richardson, Supervisor Granted "Q" security clearance. Served as a resident engineer in the nonreactor nuclear facility. Analyzed information pertaining to the purification process for nuclear material. Evaluated and monitored the compliance of the nuclear facility with safety and health regulations. Compiled daily reports to DOE headquarters. Prepared annual financial budget requirements for division.

09-1986 to 01-1989; Assistant District Engineer; Va. Dept. of Health, Office of Water Programs; Culpepper, Va. Water and wastewater treatment facility inspector. Responsible for community water and sewage systems' compliance with DOH guidelines. Evaluated plans for waterlines, gravity sewers, pump stations, and force mains for technical adequacy. Wrote technical reports summarizing technical analysis.

EDUCATION: Howard University; Washington, D.C.; Chemical Engineering; 1985; Bachelor; 145 Semester Hours: Geo. Washington Univ.; Washington, D.C.; Courses in Manufacturing Engineering:

PROFESSIONAL TRAINING: Quality Engineering I, II and III (Delco Electronics); Precision Etch 8300, Operations and Programming (Applied Materials); Practical Integrated Circuit Fabrication (Delco Electronics) ; Intro to Nuclear Eng., 40hrs,7-89; Evaluation of Cost and Schedule Control Systems; Basic Project Management: Planning & Scheduling and Control;
AWARDS: Outstanding rating 10-99; Performance Award 01-00

MR. LINDSAY O'BRIEN QUARRIE
98 Autumn Road, Dracut MA 01826
(978) 681-4574 (H), quarrie2@comcast.net

OBJECTIVE: Sr. Electronics Hardware & Systems Design Engineer, Sonet, Wireless, Packet, embedded processor ASIC and FPGA System Architecture Design, Verification, Validation and Integration. Seek position as individual technical contributor, team leader, engineering project manager or technical program manager.

SUMMARY OF QUALIFICATIONS

Analog & Digital Electronic and electromechanical hardware design and development. Electromagnetic Interference (EMI)/Electromagnetic Compatibility (EMC). Biomedical Engineering. Digital Electronics, Radar and Power Electronics. FPGA, ASIC and Optical SONET Engineering. Standards utilized: MIL-STD 461/462 et al, IEC801/1000 series, ITU-T G.707, Telecordia GR253, SFI4, SPI4.2, IEEE802.11 and ISO 9000 quality standards.

SUMMARY OF EDUCATION

Electrical & Computer Engineering

Computer Engineering UNIVERSITY OF MASSACHUSSETTS Graduate School, Lowell, MA
Advanced VLSI Chip Design using VHDL & Verilog; Verification of Very Large Digital Systems; FPGA Logic Design Techniques; Digital ASIC Design (NC State University)-VBEE [2001]
Electrical Engineering HOWARD UNIVERSITY Graduate School, Dept. EE, Washington, DC [1996]
Optimization Theory and Applications
Electrical Engineering GEORGE WASHINGTON UNIVERSITY, Graduate School, Dept.of EE, Washington DC [1995]
Electromechanical Energy Conversion; Direct Energy Conversion
Master of Science in Electrical Engineering DREXEL UNIVERSITY, Philadelphia, PA [1994]
Bachelor of Science in Electrical Engineering UNIVERSITY OF MIAMI, Coral Gables, FL [1992]

Engineering Management & Business Administration

Graduate College of Business Administration, Drexel University Philadelphia, Pennsylvania [1992]

- **Financial Accounting, Financial Management, Microeconomics, Business Law.**

Graduate College of Engineering, Engineering Management, Drexel University Philadelphia, PA [1992]

- **Engineering Project Management**

Project scheduling using PERT/CPM techniques and software to schedule and manage project resources and costs.

- **Engineering Management Communications**

Communications aspects of engineering, audience analysis; simple and complex winning proposal development.

SUMMARY OF PROFESSIONAL EXPERIENCE

Hardware Development & System Integration: Wireless, Optical, Semiconductor, Military & Medical
www.vitesse.com, [2000-2003] **Senior Member of Technical Staff, Lead ASIC Validation Engineer**
[VITESSE SEMICONDUCTOR, Salem NH Design Center]

- Digital Hardware design, development, verification, validation, noise analysis and release to production of six (6) million+ gates telecommunication SONET (Synchronous Optical Network) pointer processor, frame aligner, time slot interchange ASICs and FPGAs. Successful planning and execution of hardware development of PCBs for ASIC Validation. Implementation of PCI based chassis with clock distribution, optical transponders, and laser sources for ASIC validation. Generated Visual C++ based GUI system interfacing through a PLX chip for access and control of thousands of register inside ASIC. Implemented functional validation of ASICs, laser source and transponder control utilizing PERL and optical test equipment command source for software control. Successfully led and implemented validation system for full spin, metal-layer respin and full chip respin. Implemented validation system for newest, combination optical SONET/10GbE (SFI-4/SPI-4.2) packet ASIC. Successfully led ASIC validation teams of six (6) or more engineers.

www.harris.com [2000] **ENGINEERING PROJECT MANAGER BROADBAND WIRELESS ACCESS**

[HARRIS CORPORATION-INTRAPEX, Littleton MA]

- Successful hardware development of integrated 2.5G RS-200 "Clearburst" wireless remote station (Harris) including E1/T1, LAN, Ethernet, Nx64 Video (V.35), POTS and RS-232 including Voice & Video over IP.
- Manage Hardware Design and Development of Integrated Broadband Wireless Network Access Devices, new product design & development for wireless telecommunications and transmission solutions.
- Create hardware definitions based on system requirements for point-to-multipoint wireless networks.
- Management of all aspects of hardware design from concept through production including device family planning, detailed project planning, scheduling, configuration management, contract manufacturing for PCB layout, fabrication, assembly, test and design reviews.
- Multi-site development of remote station hardware with Montreal and Calgary for a project phased out in the US for migration to the Microwave Communication Division in Calgary, Canada.
- Led a team of over six engineers to successful delivery of first 'Clearburst' Broadband Wireless Access Remote Station (RS-200) for Harris Corporation. [Littleton, MA]

Military Electronics

www.raytheon.com [1998-2000] **SENIOR ELECTRICAL ENGINEER, HARDWARE DESIGN**

[RAYTHEON ELECTRONIC SYSTEMS, Radar Laboratory, Power Design Sudbury, MA.]

[RAYTHEON NAVAL & MARITIME SYSTEMS, Hardware Design, Portsmouth, RI.]

- Hardware design, development, analysis and release to production of an array of analog and digital electronic hardware including the design of variable frequency tuning magnetics for sonar systems on autonomous underwater vehicles (MK 30), power supply test requirement specification for submarines and fighter aircraft. Detailed hardware design of complex engineering system from component level to system integration of state of the art sensors (including radar) and weapons integration with successful release to production and deployment (SSDS MK II), FDDI/ATM LAN Access Units. Simultaneous detailed hardware design and project management of radar power distribution unit control logic assembly using an integrated product development system approach, six sigma and project earned value. Design of THAAD Antenna Array Power Distribution Unit Control Logic Assembly. Led and supported a cross-functional team of more than eight (8) engineers, technicians and assemblers local and West coast after Raytheon buyout of Hughes Aircraft Company Defense System Segment for SSDS MKII production in Portsmouth, RI. Other programs include NSSN transmit & control power supplies, CCS MK II, TLAN (EMI) and JCTCS (Aircraft dc-dc converters), and AN/SQQxx design upgrade.

Medical Devices

www.fda.gov/cdrh [1994-1998] **ELECTRICAL ENGINEER**

[Center for Devices (CDRH), Office of Science & Technology, US FDA Rockville, Maryland.]

- Hardware development and analysis for an array of medical devices including mammography equipment, gamma cameras, infusion devices, automatic external defibrillators (AED). Analysis of Electromagnetic Energy, Electromagnetic Interference/Electromagnetic Compatibility (EMI/EMC) and their implications for medical device design through the Food and Drug Administration (FDA) Center for Devices and Radiological Health (CDRH) 510 (K) process. Design for medical device safety and effectiveness through CDRH design guidelines and the CFR (Code of Federal Regulations) as well as special controls for high reliability medical devices. Study of the design operation and use of most medical devices and accessory medical devices releasable through the FDA 510 (K) process and their chemical/ biological interaction with the human anatomy including endoscopic devices and patient monitoring systems. Led analog and digital test and International standards development and guidance for electronic medical device design. [Rockville, MD.] Also briefly interfaced with United States Patent & Trademark Office, Crystal City Virginia completed some Patent Examiner training.

AWARDS

- **Vitesse Semiconductor Cash Award** for leading the successful physical validation of 6 million+ gate VSC9186 SONET/SDH pointer processor, framer, time slot interchange ASIC and its' Release to Volume Production (RTP) for Vitesse. [August 2002].
- **Raytheon Merit Award** for the successful design & transition of complex engineering system (Ship Self Defense System MK II) involving state of the art FDDI and ATM technology from the Raytheon purchase of Hughes NAMS, Fullerton, CA to Raytheon NAMS, Portsmouth, RI. [March – August 1999]
- **Special Controls Design Award** for a Class II medical device required by Congress, November 1996.
- **1997 United States Public Health Service Engineering Literary Award in the Research Category**. Tucson, Arizona. [June 1997]

SKILLS

Hardware & Software:

Design for (EMI/EMC). Radar Engineering. Introduction to embedded processor design. Familiar with Mac/IBM PC compatibles, ISA, PCI & cPCI buses and VME based Architectures. FDDI/ATM Network Interface Cards, Motorola MVME Cards w/ I/O. Custom design for wireless remote station networks with Motorola MPC 860 telecom processor. Synchronous Optical Networks (SONET)/Synchronous Digital Hierarchy test systems. National Instruments Labview for data acquisition and control, GPIB. Use of CP320 Processor & Motorola PowerPC in PCI chassis on high-speed backplane for ASIC Validation. Network Operating & Information Systems: Sun Solaris 8 OS Unix, HP Unix, Linux, TCP/IP, Windows NT/2000/XP, Novell, Tornado 2.0 vxWorks 4.x.

Programming & Hardware Description Languages:
ASSEMBLY, PASCAL, FORTRAN 77, ABEL, C, C++, VERILOG & VHDL, PERL, Tck/Tl, Visual C++ based custom GUI.

PCB Board, FPGA & ASIC Design Software & Verification Tools: Mentor Graphics, Xilinx Foundation Series, Cadence Design Series including Allegro and Orcad, Pro Engineer, PADS, NCSIM, ACTEL HDL, ALDEC Design & Simulation Tools, Specman e-language, Telecom Workbench, Synplify Pro.

Productivity Software: Microsoft Office, Microsoft Project, Microsoft Outlook, Lotus Notes, Mac Project, Timeline, Visio, Netscape & Internet Explorer.

Test Instruments: Specification, procurement and use of a wide spectrum of digital and analog test & communications test equipment including HP & Tektronix Optical Test Systems, Logic Analyzers, spectrum analyzers and Oscilloscopes, Isatrol Spike Generators, HP/Haefely Trench/Kikusui EMI/EMC testers, arbitrary waveform generators, RF Generators and Signal Integrity Analyzers.

Application Notes/White Papers in Telecommunications

Vitesse Semiconductor Application Notes, Papers:

- "VSC 9186 Application Modes Configuration" for 10 Gb/s Pointer Processor and Frame Aligner *Dan E. Kelly, Lindsay O'Brien Quarrie, David Zlotek* June 6, 2001.
- "VSC 9186 Programming The TSI" *Dan E. Kelly, Lindsay O'Brien Quarrie,* June 6, 2001.
- "VSC9186 Validation Test Plan" rev 1.0 initial spin, Rev1.1 metal respin, Rev2.0 Full Respin *Lindsay O'Brien Quarrie,* June 6, 2001.
- "VSC9186 HASB & APS Programming Application Note" *Steve Snyder, Lindsay Quarrie,* 2002.
- "VSC9186 Device Configuration for single OC-48 Channel Operation "*W.C Wurst, PE, L. Quarrie*"92702
- "VSC9186 v2.0 RTOH & LNPPPINS Timing-Transparency Function. "*L. Quarrie*" 101602

ACHIEVEMENTS

- **US National Committee** Voting Member of Technical Advisory Group for SC77A Issues on Electric Power Quality. **1997**
- **Member of National Academy of Sciences**- National Research Council- Federal Facilities Council Committees on Research, Design and Construction and Environmental Engineering. Washington, DC. **1997**
- **Session organizer/chairman** Medical Electronics I: "The Interaction of Power Quality and the Effects of Electromagnetic Interference (EMI) on High Reliability, Critical Medical Equipment."
- Presented and **published** a paper "A Case Study of Power Quality in a Health Care Facility: Walter Reed Army Medical Center, Washington DC", at the IEEE Northcon Technical Applications Conference, Seattle, WA. **November 1996**
- Licensed as Engineer-In-Training (EIT), State of Maryland **1996,** Approved to take the Professional Engineer (PE) Exam **1997**
- Certified as Competent Toastmaster (CTM), Toastmasters International **1996**
- Completed the **Dale Carnegie Course** in Leadership and Communication, Rockville, MD. **July 1995**
- Member of FDA Advisory Committee, Electric Heating Pads. **1995**
- Preliminary Design of Device to determine a **"Functional Cross Section of the Peripheral Nerve in Real Time". 1996**
- Senior Design Project: **Multipurpose Ultrasonic Transmitter/Receiver Devices. 1991**
- Vice President of IEEE Student Chapter, UM **1991**
- Passed Air Force Officer Qualifying Test (AFOQT), Andrews AFB **1995**
- Nuclear Power Officer Candidate, USN **1994**
- First Responder Certification (Maryland Institute of Emergency Medicine) **1997-2000**

- Rockville Volunteer Fire Department, Rockville MD **1997**
- Opportunities Provided Through Interactively Organized Network Systems **1996-1997**

CLEARANCES

Department of Defense Secret Security Clearance

SOCIETY MEMBERSHIPS

Member Institute of Electrical and Electronics Engineers (IEEE)
Member National Society of Professional Engineers (NSPE)
Member Fabless Semiconductor Association (FSA)

OTHER ACTIVITIES

Member of Salem Athletic Club, Salem New Hampshire
Soccer, Golf, Yoga, Kickboxing & Body Pump

Research in Electromagnetic Interference/Electromagnetic Compatibility and Power Quality

- Provided Consultation to MQSA laboratory concerning shielding and grounding of Mammography Test Equipment from Electromagnetic Interference (EMI). 1996
- Provided the Federal Aviation Administration (TRW-FAA) with consultation on electric power quality as it relates to critical airport radar systems and subsystems. 1996
- Performed Electromagnetic Interference (EMI)/Electromagnetic Compatibility (EMC) Risk Assessment at Walter Reed Army Medical Center. Studied the power quality environment within the facility and assisted in determining device susceptibility to radiated and conducted electromagnetic interference. Presented results to the National Capital Hospital Engineering Society (NCHES), Naval Medical Center, Bethesda MD. 1995
- Developed EMI/EMC test standards for medical devices and testing medical device susceptibility to conducted EMI, power line disturbances, voltage interruptions, dips and transients. 1994
- Conducted research on the design of a Superconducting Magnetic Energy Storage (SMES) device to deliver KVA to critical loads in the event of momentary power interruption. Analyzed power line anomalies and the effective degradation of batteries in UPS systems due to frequent power line disturbances. 1995
- Conducted research at National Institute of Health to observe the effects of emergency generator testing on line power and its effects on medical devices in use. 1996

Presentations and Seminars on Electromagnetic Interference/Electromagnetic Compatibility and Power Quality

- Presented technical paper "A Case Study of Power Quality in a Health Care Facility: Walter Reed Army Medical Center, Washington DC." National Capital Hospital Engineering Society (NCHES): Naval Officers Club, Bethesda, MD. May 1996
- Presented seminar on "Electromagnetic Interference (EMI) and Power Quality Awareness" to Northern Virginia Chapter of the National Society of Professional Engineers (NSPE), McLean, VA. September 1996
- Presented seminar on "Power Quality and Electromagnetic Interference (EMI): Origin and Effects." to graduate seminar in Electrical Engineering at Howard University, Washington, DC. October 1996
- Presented technical paper "A Case Study of Power Quality in a Health Care Facility: Walter Reed Army Medical Center, Washington DC." at the IEEE Northcon Technical Applications Conference. Published technical paper in conference proceedings. Designated Session Chairman for Medical Electronics Session I, IEEE Northcon Technical Applications Conference. Seattle, Washington. November 1996
- Presented technical paper "A Case Study of Power Quality in a Health Care Facility: Walter Reed Army Medical Center, Washington DC." United States Public Health Service (USPHS) Commission Officers Association (COA) Annual Meeting, Engineering Literary Awards, Engineers Symposium. Tucson, AZ. June 1997
- "Power Quality and Electronic Medical Devices: A Case Study in a Health Care Facility" U.S. Food and Drug Administration/Association for the Advancement of Medical Instrumentation (AAMI) Conference on Electromagnetic Compatibility/Electromagnetic Interference: Solutions for Medical Devices Poster Session. Arlington, VA. June 1997

Any Location

DARRELL SCALES

1902 West 4th Street
Chester, PA 19013
Phone #: (610) 497-2788
E-mail Addresses: darrellscales@yahoo.com, dscales@mail.com

MECHANICAL ENGINEERING PROFESSIONAL

Mathematical & Theoretical Analysis / Systems Improvements / Product & Process Development

Extensive knowledge in the design, development and management of dynamic mechanical systems of various sizes and configurations. Consistently successful in linking mechanical engineering concepts with "real world" systems to provide solutions in problem areas. Experienced at providing leadership for strategic planning, technology R&D, hands-on applications, process controls and production.

Delivered strong and sustainable improvements to mechanical systems where gains were translated into definable and tangible upgrade and performance increase to machines, mechanisms and processes. Equally effective in capturing cost reductions through process redesign and performance management.

Combine excellent technical, analytical and engineering qualifications with demonstrated achievement in delivering results on-time and within the constraints specified as part of project's assignment. Strong leadership, team building and problem solving expertise. Some of that expertise includes:

- Project Design & Management
- Product & Technology R&D
- Vendor Selection
- Cross Functional Team Leadership
- CAD Systems & Technologies
- Mathematical/System Modeling
- Continuous Process Improvement
- Product Manufacturability & Optimization

SUMMARY OF QUALIFICATIONS

DESIGN Extensive experience in formulating objectives for start-up design projects and processes. Broad experience in the study of the affects of stress and fatigue on various materials on the academic and industry levels. Worked on the design of parts made from Sheet Metal Molding and Injection Molding processes. Experienced in developing and designing BOMs (Bill of Materials) for various valves and component configurations. Ability to design mechanically actuated systems. Six Sigma Greenbelt trained (KBM, KT, DOE, IPO, Gage R&R and Manufacturing Process Improvement), which includes a background for developing and improving manufacturing and design processes.

ANALYSIS Worked jointly with research professionals in a team environment to identify and quantify states of various electro-mechanical systems. Proficient in analyzing piping systems for the purpose of determining pressure drop behavior including a working knowledge in determining pipe stress behavior. Extensive background in determining and analyzing internal and external fluid flow behavior and pipe stress behavior utilizing various fluids (Water, Hydraulic Fluid, Lubrication Oil and Petroleum) for the purpose of determining the fluid's overall behavioral characteristics. Working knowledge of PLC's (Programmable Logic Circuits). Extensive background in numerical and analytical research on the academic and professional levels using Finite Element Analysis and other numerical and mathematical tools. An ability to performed theoretical shock analysis on mechanical and structural systems.

MANAGEMENT Extensive background in project management from concept to completion. Also, a background that includes Project Management of the redesign of commercial product lines. An ability to work closely with and manage lab and assembly technicians for improving and troubleshooting final product and design.

COMPUTER EXPERIENCE

AutoCad rel 14 & 2000, CadKey 7.2, DOE, FEA (Finite Element Analysis), Algor (FEA Software Package), ANSYS, LabView, Pascal, Fortran IV & 77, FlowMaster (Piping Fluid Flow Analysis Package), Fathom (Fluid Flow Analysis Package), Triflex (Pipe Stress Analysis Package), Windows 9x, WordPerfect, MS Office, MS-Word, Lotus 1-2-3, MS Excel, Vax/Vms Unix O.S., Ansys 4.4A, Matlab w/ Simulink, MathCad, DADS386 (Dynamic Simulation Software Package), DataBase programs including WPS, Access, BPCS and Logia, Internet Protocols, Netscape, MS Internet Explorer, SPCExcel, KissDOE, HTML (HyperText Markup Language) Coding, cc:Mail, Micro-Computer Configurations & Rudiments.

PROFESSIONAL EMPLOYMENT

Lockheed-Martin Corporation, Philadelphia, PA **07/02-Present**

Sr. Mechanical Engineer/Systems Engineer

Hired to perform Mechanical Systems Analysis (including Vibration, Shock, Heat Transfer, Structural) of computer server rack systems for the US Navy. Hired to designed and implemented internal process and quality improvement projects for purpose of workflow efficiency and expediency. Also hired to work with other Systems Engineers to best support COTS Rack Server System for integration aboard Naval ships from a Mechanical Engineering perspective.

- Responsible for all Mechanical System designs and improvements on computer server rack systems.
- Interact with government personnel (SPAWAR, NAVSEA, NAVAIR) design agents, and shipbuilder technical experts and management personnel on a variety of computer rack system R&D and T&E, planning, and budgetary issues. Provide technical expertise in shock, vibration, and mechanical engineering related areas and serve as a technical representative for SPAWAR.
- Assess from a mechanical engineering perspective via documentation, the design impact of proposed design changes on performance parameters of Computer Rack Systems. These documents include: SHIPALT and TEMPALT design packages, Ship System and installation diagrams, Justification Cost Forms (JCFs), design calculations, and other design related and test documents.
- Develop racking and stacking procedures for server and workstation systems through mounting slide and rail designs.
- Design integration proposals for racking and stacking computer servers and workstations for shipboard applications.
- Perform vibration analysis of computer server racks for the purpose of defining the stability mode (Modal Analysis) of the system.
- Aid in the shock analysis of study of computer server rack systems for the purpose of determining rack safety and survivability.
- Develop processes to help document and concurrently stabilize various operating procedures for server rack configuration setups.
- Create new processes via a process development program to streamline tasking and improve workflow.
- Help in creating schemes to deploy process improvement implementation throughout the Naval Support organization

Corning Incorporated, Corning, NY **11/00-11/01**

Senior Process Engineer-Supervisor (Specialty Materials-Division Engineering)

Hired to lend process engineering support and leadership from a mechanical engineering prospective to both product finishing and forming processes for product development and production sides of both the HPFS and CaF_2 businesses. Designed and implemented process and quality improvement projects. Designated as a "mechanical engineering troubleshooter" for Specialty Materials' Division Engineering, traveling to production facilities to direct plant process improvements, resolve long-standing process flow problems and increase production output. Also, hired to supervise direct reports and lend direction and support on all levels for their professional development and career path.

- Identified process problem areas in Glass Forming using Six Sigma Process Improvement techniques and subsequently reduced possible personal injury and cycle time by **25%**.
- Managed a project in the Glass Forming area, which should produce a ROI (Return On Investment) of approximately **$390K** by developing process techniques and mechanisms to stabilize glass quality.
- Managed a design project to modify Glass Metrology enclosures that saved approximately **$60K** in outside capital expenditures.
- Supervised including the planning, estimating and scheduling the activity of engineers and/or technicians for accomplishing the objectives of project(s) or task(s).
- Created and designed systems and processes that reduced glass kerf by approx. **25%** during the glass-finishing phase.
- Constructed design criteria for searching, developing and purchasing of large scale Water Filtration Systems for Calcium Fluoride Crystal Forming Furnaces.
- Developed the processes, which operate within requirements of environmental control both internal and external to plant(s) along with developing written documentation, operating procedures, maintenance schedules and personnel training for said processes.
- Supported manufacturing plant(s) in process development and implementation leading to yield improvements for various systems.
- Supervised and coached direct reports that include developing learning plans and long-term objectives..

Newport News Shipbuilding, Newport News, VA **10/98 -11/00**

Aircraft Carrier Engineer/Mechanical Engineer

Provided new and sophisticated engineering and technical designs for Aircraft Carrier sub-systems using computer and non-computer based design and analysis tools. Concurrent responsibilities included identifying and then implementing remedies in the ship's problem areas where mechanical engineering support is needed or desired.

- Performed theoretical dynamic/shock analyzes of various ship components to meet ship and military specifications.
- Carried out Heat Transfer analysis of steam piping systems for the purpose of determining flow characteristics.
- Prepared, reviewed and revised technical documents, procedures, Purchase Order requisitions, inspections, and drawing as assigned.
- Verified that all engineering products are accurate, complete and conform to specification and procedure.
- Maintained close liaison with both internal and external customers and take those actions necessary to achieve a high level of satisfaction with due attention to budgets and contractual requirements.
- Identified, initiated and led new projects involving the department and the machinery section.
- Developed/implemented Process and Product Improvements utilizing tools such as OFI and Design and Build Teams which leads to improvements in manufacturing and engineering process.
- Lead Engineer in the scoping, designing and implementing of engineering changes for new ship systems.
- Performed stress and thermal analyzes of carrier design pieces for the purpose of better product implementations.
- Analyzed piping systems for the purpose of determining piping system behavior via stress and pressure drop analysis.
- Performed pipe stress investigations including Water Hammer Analysis and Thermal Expansion Analysis for various machinery and mechanical systems.

Independent Consulting -- Self Employed **7/97-10/98**

- Perform mechanical drafting contract work for private individuals.
- Create webpages in HTML coding format for student organization.
- Carry out graphical design work for input into books and other printed materials.

ITT Engineered Valves, Lancaster, PA 7/96-7/97
Product Engineer/Project Manager
Hired to provide mechanical engineering and product development support for various valve product lines. Worked co-operatively with other business units to devise plans for product change-overs and reworks for the purpose of increasing market share. Those business units included -- Manufacturing, Production, Sales and Marketing.

- Analyzed research data, customer and/or proposed product specifications to determine product feasibility.
- Managed **$100K** component and sub-assembly updating on various product lines.
- Created and updated implementation, maintenance and servicing procedures for new product lines.
- Conferred with customer service, sales personnel or customers to clarify or resolve technical problems.
- Developed mathematical and computerized analysis schemes to determine parts and components strength, durability and usability.
- Directed and coordinated manufacturing or building of prototype product or system.
- Conferred with industrial engineers and buyers to insure manufacturability of parts and components.

Temple University, Philadelphia, PA 9/92-7/96
Researcher and Assistant to Dr. Henry Sendaula, the College of Engineering
Strategic position that focused on mechanical engineering aspects of research and design projects. Catalyst for modifying designs concepts to achieve mechanical engineered viability.

- Determined the physical state variables of various types of Electro-Mechanical Systems ranging from motor controlled to motor actuated systems for purpose of design analysis.
- Performed Kinematical and Dynamical Simulations and Studies of various types of Mechanical Systems ranging from solid state structures to mobile platforms.
- Executed analyzes of structural mechanisms for the purpose of system modeling and overall design aptness.
- Performed Stress and Deflection analyzes of different types of rigid body systems.

Temple University, Philadelphia, PA 1/89-7/96
Supervisor, Peer Support/Tutoring Program and TEMPPAS Program and Part-Time Professor
Accepted opportunity to formulate, staff, organize and then manage student developmental projects for the purpose of improving student recruitment and retention. Wrote policy that setup structured environments for learning within the confines of the University's educational framework.

- Developed programs and schemes for directing fund-raising efforts to support student based learning programs.
- Planned and directed multi-scale research projects on competitive strategies for student retention and recruitment.
- Created off-campus associations with various student orientated organizations including the Boy Scouts of America's Explorers Program and INROADS America.
- Participated in creating, developing and planning educational enhancement programs for the purpose of improving student aptitude and learning.
- Taught Math and Physics to incoming science and technology freshmen students during summer sessions.

EDUCATIONAL EXPERIENCE

Temple University, Philadelphia, PA
Master of Engineering Science, *January 1992*
Major: *Mechanical Engineering.*
Thesis Research Topic: ***Numerical Investigation of In-Plane Buckling of Metal and Composite Plates with and without Centrally Located Circular Cutouts.***

Bachelor of Science, *May 1987*
Major: *Mechanical Engineering Technology*

Delaware County Community College, Media, PA
Associate in Applied Science, *May 1984*
Major: *Drafting and Design Technology*

CONTINUING PROFESSIONAL EDUCATIONAL & TRAINING EXPERIENCES

- DOE (Design of Experiments) Training, Tunnell Company Inc., May '97.
- Green Belt Trained (Six Sigma), Air Academy, Inc
- KBM (Knowledge Based Management)

PUBLICATIONS, AWARDS, AFFILIATIONS and ACTIVITIES

- Co-Authored paper for symposium on Composite Materials, Fatigue and Fracture *(1991)*
  Title: Initial Buckling Strength and Failure of Composite Panels in Compression or Shear.
- Former Coordinator, Boy Scout of America's Explorers Program, Temple University's College Engineering. Chapter *(1992-97).*
- National Society of Black Engineers *(NSBE) (1996-Present),* American Society of Mechanical Engineers *(ASME) (1997).*
- DOD (Department of Defense) Security Clearance *(1998-Present).*
- Temple University's Mechanical Engineering Industrial Advisory Board *(2003-Present).*

REFERENCES AVAILABLE UPON REQUEST

not a citizen

JASPREET SINGH
102-39 86 Street
Ozone Park, N.Y. 11416
(718) 322- 9008 H Jaspreet802002@yahoo.com (917) 842-0233 C

OBJECTIVE

A position in the field of electrical engineering where I can apply my education and experience in electrical circuits, power and telecommunications.

EDUCATION

B.S., Electrical Engineering, The City College, CUNY: May 2003 GPA: 3.52
A.S., Engineering Science, BMCC, CUNY: May 2002 GPA: 3.50

RELEVANT COURSEWORK

Digital Signal Processing	Electrical Power	Feedback Systems
Wireless Communications	Local Area Network	Writing for Engineers

TECHNICAL SKILLS

Programming Languages: C++
Design Applications: AutoCAD, Matlab and Electronics Workbench
Other Applications: Microsoft Word, Excel and Power Point

EXPERIENCE

Deol Electrical Corp., New York, N.Y. 01/03 – 10/03
Assistant

- Troubleshooting electronic components and systems
- Designing, installing and testing electrical circuits
- Implementing and testing procedures for server and PC boards

MTA, NYC Transit, New York, N.Y. 09/02-12/02
Intern, Capital Program Management

- Examine design drawings and specifications
- Assist manager in preparing technical papers
- Helped managers in electrical power and communication projects

Coastal Gas Station, North Brunswick, N. J. 12/99-04/00
Sales Associate

- Utilized suggestive selling technique to increase gas sales volume by 10% for three consecutive months
- Answered questions and resolved customer concerns regarding gas station policies
- Designed weekly display to highlight sales items

HONORS

Golden Key International Honor Society, Inducted Sept. 2002
Tau Beta Pi Engineering Honor Society
Who's who among Students in American Universities and Colleges

AFFILIATIONS

Institute of Electrical and Electronics Engineer (IEEE)